Calcul des séquents classique (LK)

Règles

$$\frac{}{\Gamma, A \vdash \Delta, A}\ \text{ax} \qquad \frac{\Gamma \vdash \Delta, A \qquad \Gamma, A \vdash \Delta, B}{\Gamma \vdash \Delta, B}\ \text{cut}$$

$$\frac{\Gamma, A, A \vdash \Delta}{\Gamma, A \vdash \Delta}\ \text{cont}_{\text{left}} \qquad \frac{\Gamma \vdash \Delta, A, A}{\Gamma \vdash \Delta, A}\ \text{cont}_{\text{right}}$$

Calcul des séquents classique (LK)

Règles

$$\frac{\Gamma \vdash \Delta, A \qquad \Gamma, B \vdash \Delta}{\Gamma, A \Rightarrow B \vdash \Delta} \Rightarrow_{\text{left}} \qquad \frac{\Gamma, A \vdash \Delta, B}{\Gamma \vdash \Delta, A \Rightarrow B} \Rightarrow_{\text{right}}$$

$$\frac{\Gamma \vdash \Delta, A, B \qquad \Gamma, A, B \vdash \Delta}{\Gamma, A \Leftrightarrow B \vdash \Delta} \Leftrightarrow_{\text{left}}$$

$$\frac{\Gamma, A \vdash \Delta, B \qquad \Gamma, B \vdash \Delta, A}{\Gamma \vdash \Delta, A \Leftrightarrow B} \Leftrightarrow_{\text{right}}$$

Calcul des séquents classique (LK)

Règles

$$\frac{\Gamma, A, B \vdash \Delta}{\Gamma, A \wedge B \vdash \Delta} \wedge_{\text{left}} \qquad \frac{\Gamma \vdash \Delta, A \qquad \Gamma \vdash \Delta, B}{\Gamma \vdash \Delta, A \wedge B} \wedge_{\text{right}}$$

$$\frac{\Gamma, A \vdash \Delta \qquad \Gamma, B \vdash \Delta}{\Gamma, A \vee B \vdash \Delta} \vee_{\text{left}} \qquad \frac{\Gamma \vdash \Delta, A, B}{\Gamma \vdash \Delta, A \vee B} \vee_{\text{right}}$$

$$\frac{\Gamma \vdash \Delta, A}{\Gamma, \neg A \vdash \Delta} \neg_{\text{left}} \qquad \frac{\Gamma, A \vdash \Delta}{\Gamma \vdash \Delta, \neg A} \neg_{\text{right}}$$

$$\frac{}{\Gamma, \bot \vdash \Delta} \bot_{\text{left}} \qquad \frac{}{\Gamma \vdash \Delta, \top} \top_{\text{right}}$$

Calcul des séquents classique (LK)

Règles

$$\frac{\Gamma, A(t) \vdash \Delta}{\Gamma, \forall x.A(x) \vdash \Delta} \forall_{\text{left}} \qquad \frac{\Gamma \vdash \Delta, A(x)}{\Gamma \vdash \Delta, \forall x.A(x)} \forall_{\text{right}},\ x \notin \Gamma, \Delta$$

$$\frac{\Gamma, A(x) \vdash \Delta}{\Gamma, \exists x.A(x) \vdash \Delta} \exists_{\text{left}},\ x \notin \Gamma, \Delta \qquad \frac{\Gamma \vdash \Delta, A(t)}{\Gamma \vdash \Delta, \exists x.A(x)} \exists_{\text{right}}$$